Paclemen

Resert by Joint intelligence Study Publishing Spard

Reference: Minutes JTS 98th Meeting 20 August 1946

The Problem

1. To study familiality of preparing JANIS in some other form than printing in order to reduce costs.

Pasts Bearing on the Problem

- 2. A JANIS study varies in size from 350 to 950 pages. JANIS 85, for example, consists of 759 pages and 134 insert maps. Of the 759 text pages; 172 are text, 159 pages are tables, 275 pages are halftones or text and halftones, 153 pages are line cuts or text and line cuts. For the tabulation of comparative costs (Appendix "B") 500 pages (135 straight text, 125 tables, 220 text and halftones, 120 text and line cuts) and 130 insert maps was used as the average size of a JANIS.
- 3. The printed JAMIS page is the equivalent of three manuscript pages. Allowing for space occupied by halftones and line cuts, the average JAMIS would be about 1500 manuscript pages. The photographs and line cuts would make a volume of illustrations of about 150 pages. These figures were used in estimating costs of reproduction by mimeograph and by <u>Ultamat</u> or other direct-process offset mat.

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4. Costs of mimeograph and <u>Ulterat</u> reproduction are shown in Appendix "A". Calculations were based on four alternative plants

- (a) 1,000 copies, mimmographed, complete with effect-printed photographs.
- (b) 1,000 copies, offset-printed from <u>Witnest</u> or other direct-process mat, complete with offset-printed photographs.
- (e) 100 copies, mimeographed, without photographs, for limited distribution; master copy in justified electromatic typing, with photographs, to be prepared ready for future photoeffect printing whenever needed.
- (d) 100 copies, offset-printed from <u>Ulterat</u> or other directprocess mat, without photographs, for limited distribution; master copy in unjustified electromatic typing, with photographs, to be prepared ready for future photo-effset printing whenever needed.

Plans (a) and (b) would involve almost three times the

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bulk of a printed JANIS or a JANIS as currently reproduced by photo-offset from electromatic typed copy, as the printed JANIS page is equivalent to nearly 3 pages of manageript. For a job as large as JANIS, mimeographing or Elizati reproduction would be more expensive than photoeffset reproduction from electromatic typed unjustified copy, largely because of high cost of assembly and binding of individually printed sheets. (In effset printing 8- or 16-page signatures can be printed, folded, and out mechanically, thus greatly reducing the task of assembly.) In plans (a) and (b) photographs would have to be reproduced separately by effset printing, thereby complicating production and assembly and increasing costs. Plan (a) would produce poorer and less lagible copy then plan (b), and both would be inferior to copy predeced by photo-offset.

- Flams (c) and (d) would have the advantage of providing a master copy that could be kept current and immediately available for repreduction, but would present the following disadvantages:
 - 1) Only a very limited immediate distribution would be provided for.
 - 2) Copies for issediate distribution would not include photographs.
 - 3) Copies for immediate distribution sould have the same objectionable features of bulk, and inferior legibility listed for plans (a) and (b).
 - 4) Plans (c) and (d) would be expensive in that each plan would involve preparation of copy to hold for future reproduction in addition to copy for immediate use.
- Asserdingly, estimates were obtained from the Government Printing Office on various methods of reproduction. The GPO has recently obtained additional facilities for electromatic typing and reproduction and would be able to handle a JANIS program of six (6) studies a year.
- 6. Cost figures on various methods of reproduction are given in Appendices "A", "B", "C", and "D".

Conclusion

7. Reproduction by mimsegraph or other method of single-page reproduction, such as <u>Ulteral</u>, is believed to be impractical for a study as large as JANIS.

- 6. Of the remaining methods of reproduction, savings over the sests of the warfine JARIS (printed by letterpress) and over the present JARIS (electromatic typing and offset printing done commercially) might be effected in any of the following ways:
 - (a) Set text by Linetype, tables by electromatic bypewriter, and print by photo-offset. This would produce a publication of very high quality (nearly equivalent to letterpress printing) and if done by the GFO would cost less than surrent contracts with McGregor & Merner, Mirby Lithograph Ge., and Maple Press.
 - (b) Transfer offset printing only from commercial firms to
 - (e) Transfer preparation of electromatic typed copy as well as effect printing to OPO.
 - (d) Transfer offset printing to GPO but prepare electromatic typed copy and layout at JISPB. This last is believed to be the most satisfactory as well as the most scenovical plan; it would require the addition of several electromatic operators and a layout man to the JISPB staff (appendix "D") but would permit close supervision of production with minimum expenditure of time of JISPB professional staff and would simplify security and eliminate lisison with three commercial contractors.



APPENDIX "A"

Retinates of Costs of Reproduction by Rimcograph and Ultamat

1. Cost of Missographing:

1,000 copies:

Typing stencils, 1,500 pp 9 \$1.00	\$1,500.00
Typing abandita, 1,000 pp @ 21-10 per B	1,650.00
Mimeographing 1,500,000 pp @ \$1.10 per m	725.50
13,000 printed covers	1.000.00
Binding and assembly	84,875.50
Total for 1,000 copies without illustrations	4,413,00
1,000 copies photograph volume 150 pp	\$9,288.50
Total for 1,000 copies with illustrations	443 2000 10

2. 100 copies and preparing one master copy:

Typing stencils, 1,500 pp & \$1.00	\$1,500.00
Mismographing 150,000 pp 3 \$1.60 per m	240.00
WINGSLEDUTUR TOPOGO bis a dragon has	700.00
1,300 printed covers	100.00
Binding and assembly Total for 100 copies without illustrations	\$2,540.00
Proparation of Master copy electromatic (justified)	111.918.75
Tetal (master copy justified)	\$14,458.75

Preparation of Waster copy electromatic (unjustified) \$ 8,106.75
100 ecpies without illustrations 2.540.00
Tetal (master copy unjustified) \$10,648.75

3. Ditemt or direct image reproduction:

Cost of typing same as for mimeograph.

Cost of printing \$1.17 per m.

Cost of binding and assembly same as for mimeograph.



APPENDIX "B"

Patientes of JANIS Printing and Binding Costs

1. Letterpress printing:

a. Commercial printer (Average of 13 studies printed by Sterns or Garber)

Average number of copies	Average sise	Average cost
1,424	567 pages	\$26,435.00 46.60
Average cost	per page	48 • OU

b. Government Printing Office (estimate)

2 000 semine	£00 ne men	\$25,734.00	19,594.10
1,000 espies		42.89	49.32
Average cost	ber bele		17,20

2 Linetype text composition, electromatic tables, and offset printing:

Government Printing Office (estimate) 1,000 cepies 600 pages Cost per page	\$18,900.79 31.50	21, 735.90 36.23
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- 3. Sleetromatic typing (IBM) justified margin:
 - Comercial (Based on contracts McGregor & Werner - Kirby Lithograph)

1,000 copies Cost per page	60 0	pages	. (1	38.23
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Government Printing Office

(Metimate)		
1,000 copies 600 pages Cost per page	\$10,505.65 17.50	12,081.50
	•	

- 4. Electromatic straight typing:
 - a. Commercial

1,000 copies	600 pages	\$3.8,506.40 30.84
Cost per page		

Government Printing Office (estimate)		
1,000 copies 600 pages Cost per page	\$8,944.56 14.90	11,436.25



APPENDIX "C"

Detailed Breakdown of Costs of Composition, Printing & Binding Electromatic Typing and Offset Printing

1. Cost of Composition (McGregor & Werner contract):

600 p. Heads and captions # \$1.50	\$ 750.00
475 p. Unjustified @ 2.75	1,306.25
475 p. Proofing & layout @ 1.50	712.50
600 p. Justified pages @ 5.50	3,300.00
600 p. Proofing & layout & 1.50	900.00
125 p. Tabular matter @ 10¢ per sq. inch	2,550.00
Art work 2 \$4.00 per hour	2,400,00
With make a detent has many	\$11,928.75

2. Cost of Offset Printing (Kirby Lithograph contract):

600	Line negatives 8 \$1.75	\$ 1,050.00	1,575.00
16,900	sq. in. Halftone negatives @ 3.15	2,520.00	350.
120	Line cuts @ \$1.75	210.00	1568.
75	Press plates 8 \$14.00	1,050.00	
37.000	16p. sig. Fress Work 9 \$22.00 per m	82.4.00	1210.
7 880	Sp. sig. Press Work 8 \$11.50 per m	11.50	
74 000	Sp. sig. Cutting & folding @ \$2.50 per m	190.00	285
70,000	items Gathering @ \$1.65 per m	397.65	595.65
241,000	Annual Parking & Street Parking	468.00	468
130,000	inserts, Folding # \$3.60 per m	10,25	10.25
	Triming	474.50	474,50
730,000	holes Binding # \$.65	62.50	62,58
•	State		3,410.06
41,000	sheet Paper 28 x 40	2,255.00	725.50
15.000	Covers # \$48.50	725.50	785,00
1,000	Pressbeard Binders	785.00	
	Total cost printing & binding	\$11,023.90	14,534.40
	Total composition, printing & Binding	\$22,942.65	

APPENDIA DU

Estimate of additional personnel required if mimeograph stencils or copy for offset reproduction is to be prepared at JISPS.

- 1. Mimsograph or ultamat
 - 4 typists
- 2. Offset from unjustified IBM electromatic typed copy.
 - 4 IBM electromatic typewriter operators
 - 1 layout specialist
- 3. Offset from justified IBM electromatic typed copy
 - 7 IBM electromatic typewriter operators
 - 1 layout specialist

Basis of estimate is as follows:

1. For mimoegraph or ulterat

Working days per year 253
Average leave (Annual 20d, Sick 10d) 30
Wet working days per typist 223
1,500 stencils or mats \$ 10 per day per typist - 150 typist days
6 JANIS per year - 900 typist days
Bumber of typists required 900 { 223 = Approximately 4.

- 2. For preparing unjustified IBM electromatic typed copy

 440 pages straight text \$ 10 per day per operator

 160 pages tabular matter \$ 2 per day per operator

 6 JANIS per year \$ 124 operator days per JANIS = 744 operator days

 Supervisor and layout specialist CAF-6

 700.20
- 3. For preparing justified IBM electromatic typed copy

440 pages straight text first (unjustified) copy @ 12 per day per sperator 40 operator days

160 pages tabular matter & 2 per day per operator

80 operator days
440 pages text second (justified) copy 6 5 per day per operator

Total per JANIS 200 operator days

6 JAMIS per year = 1,248 operator days Sumber of operators needed 1,248 + 223 = Approx. 6

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\$21,534.60.

1 supervisor and layout specialist CAY-6

1 layout specialist Ca

Total 8 (7 CAF-5 and 1 CAF-6)